



# Computer Science in Nevada

State Board of Education  
October 6, 2016





# A Case for Computer Science for All

- President Obama's State of the Union challenged CS for all
- By 2018, 50% of STEM jobs projected to be CS related (Georgetown University)
- 1.4 million computing jobs by 2020 with only 400,000 CS students (2011-Code.org)
- Top 10 high demand occupations in Nevada



# Nevada's CS Taskforce

**Goal:** to determine how to increase CS across Nevada's K12 Education System

–District staff

–NDE staff

–RPDP

–State Board of Education

–State Senator

–University faculty



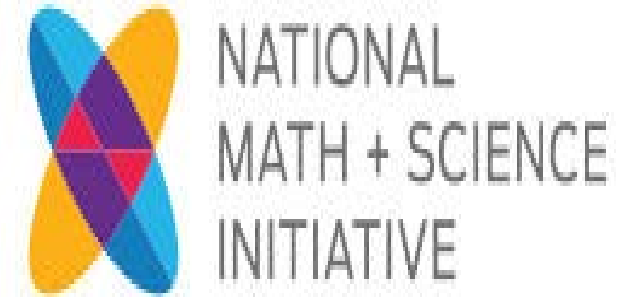
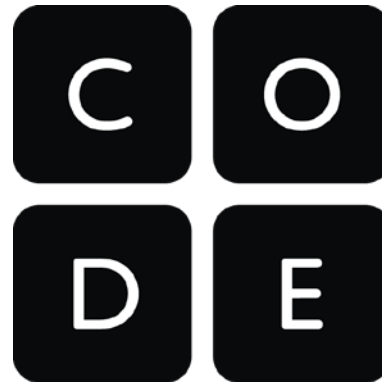
# National Partnership

## A FRAMEWORK FOR **K12** COMPUTER SCIENCE EDUCATION





# K12 CS Framework Steering Committee





# Who else is involved?

- States: AR, CA, GA, ID, IN, IA, MD, MA, NE, **NV**, NJ, NC, UT, WA
- Districts: NYC, SFUSD, Chicago, Charles County MD
- 22 advisors from the CS education community
- Industry: Google, Amazon, Microsoft, Apple
- Organizations: College Board, PLTW, Achieve, CCSSO, NGA, ISTE, NAF



# Expanding Computing Education Pathways Alliance (ECEP)

“Seeks to increase the number and diversity of students in the pipeline to computing and computing-intensive degrees by supporting state-level computing education reforms.”

- Sixteen states including Nevada
- Funded through National Science Foundation (UMass and Georgia Tech)



# Nevada's CS Taskforce Recommendations

- Develop state standards for K-12 CS using K12 CS framework
- Update regulations for “Use of Computer Technology” [NRS 389.018, NAC 389.664 and 389.450 (7)]
  - Include introduction to CS, computational thinking, logic, etc.
  - K-12 Technology Standards remain for computer skills and applications with emphasis on K-8 meeting the standards



# Nevada's CS Taskforce Recommendations continued

- Allow advanced/rigorous Computer Science courses (AP CS A and CS III) to count as science requirement for graduation, NSHE admission and Millennium Scholarship
- Teacher professional development needed to meet new requirements
  - An endorsement for CS already exists for more advanced CS courses and CTE Pathway



# Next Steps

- Formalize taskforce - possibly under Office of Science, Innovation and Technology
- Inform legislation and recommend NAC changes

# Contacts

- Dave Brancamp, Director
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- Melissa Scott, Education Programs Professional
  - Office of Career Readiness, Adult Learning and Education Options